EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1828692	copper or cu	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L2	19	iminophosphonate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L3	1	L2 same L1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L4	13	L2 and L1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L5	221	558/87.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 14:16
L6	0	L2 and L5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L7	34	iminophosphon$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L8	22	((copper or cu) and iminophosphon$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L9	4	((copper or cu) and iminophosphon$).CLM.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:58
L10	3	"2003260363"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 13:59
L11	108	558/145.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 14:16

L12	1	I2 and I11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/01/22 14:16

Connecting via Winsock to STN

Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

NEWS 1   Web Page for STN Seminar Schedule - N. America
NEWS 2   AUG 06   CAS REGISTRY enhanced with new experimental property tags
NEWS 3   AUG 06   FSTA enhanced with new thesaurus edition
NEWS 4   AUG 13   CA/CAplus enhanced with additional kind codes for granted
                    patents
NEWS 5   AUG 20   CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 6   AUG 27   Full-text patent databases enhanced with predefined
                    patent family display formats from INPADOCDB
NEWS 7   AUG 27   USPATOLD now available on STN
NEWS 8   AUG 28   CAS REGISTRY enhanced with additional experimental
                    spectral property data
NEWS 9   SEP 07   STN AnaVist, Version 2.0, now available with Derwent
                    World Patents Index
NEWS 10   SEP 13   FORIS renamed to SOFIS
NEWS 11   SEP 13   INPADOCDB enhanced with monthly SDI frequency
NEWS 12   SEP 17   CA/CAplus enhanced with printed CA page images from
                    1967-1998
NEWS 13   SEP 17   CAplus coverage extended to include traditional medicine
                    patents
NEWS 14   SEP 24   EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 15   OCT 02   CA/CAplus enhanced with pre-1907 records from Chemisches
                    Zentralblatt
NEWS 16   OCT 19   BEILSTEIN updated with new compounds
NEWS 17   NOV 15   Derwent Indian patent publication number format enhanced
NEWS 18   NOV 19   WPIX enhanced with XML display format
NEWS 19   NOV 30   ICSD reloaded with enhancements
NEWS 20   DEC 04   LINPADOCDB now available on STN
NEWS 21   DEC 14   BEILSTEIN pricing structure to change
NEWS 22   DEC 17   USPATOLD added to additional database clusters
NEWS 23   DEC 17   IMSDRUGCONF removed from database clusters and STN
NEWS 24   DEC 17   DGENE now includes more than 10 million sequences
NEWS 25   DEC 17   TOXCENTER enhanced with 2008 MeSH vocabulary in
                    MEDLINE segment
NEWS 26   DEC 17   MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS 27   DEC 17   CA/CAplus enhanced with new custom IPC display formats
NEWS 28   DEC 17   STN Viewer enhanced with full-text patent content
                    from USPATOLD
NEWS 29   JAN 02   STN pricing information for 2008 now available
NEWS 30   JAN 16   CAS patent coverage enhanced to include exemplified
                    prophetic substances

NEWS EXPRESS   19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
                CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS LOGIN   Welcome Banner and News Items
NEWS IPC8   For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008

=> file reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008   HIGHEST RN 1000370-19-3
DICTIONARY FILE UPDATES: 21 JAN 2008   HIGHEST RN 1000370-19-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> logoff hold
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   0.46   0.67

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:38:30 ON 22 JAN 2008

Connecting via Winsock to STN

Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:59:44 ON 22 JAN 2008
FILE 'REGISTRY' ENTERED AT 07:59:44 ON 22 JAN 2008
COPYRIGHT (C) 2008 American Chemical Society (ACS)

COST IN U.S. DOLLARS

SINCE FILE   TOTAL
ENTRY   SESSION

FULL ESTIMATED COST

0.46   0.67

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10591964\10591964 iminophosphonate.str
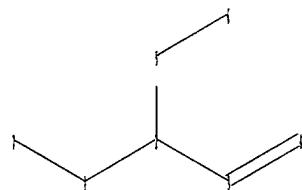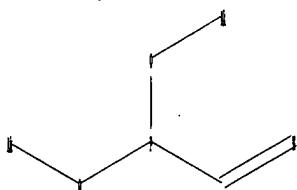
chain nodes :
1 2 3 4 5 6 7
chain bonds :
1-2 1-7 2-3 2-5 3-4 5-6
exact/norm bonds :
1-2 1-7 2-5 3-4 5-6
exact bonds :
2-3

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR
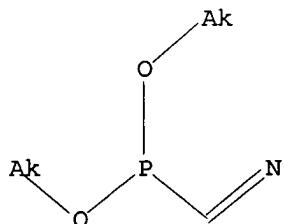
Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 08:00:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2737 TO ITERATE

 73.1% PROCESSED   2000 ITERATIONS   50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 51602 TO   57878
PROJECTED ANSWERS: 1562 TO   2816

L2   50 SEA SSS SAM L1

L2   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphoramidic acid, (phosphonocarbonyl)-, diisopentyl dimethyl ester
   (6CI)
MF   C13 H29 N O7 P2

```
Me2CH— CH2— CH2—O   O        OMe
                |   ||       |
Me2CH— CH2— CH2—O— P— C— NH— P— OMe
                   ||           ||
                   O            O
```
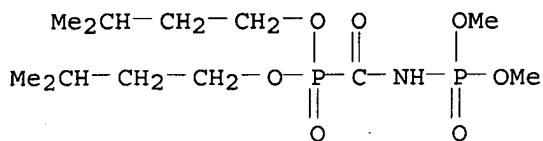
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L2   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [1-[(2-nitrophenyl)hydrazono]-2-oxoethyl]-, diethyl
      ester, (E)- (9CI)
MF   C12 H16 N3 O6 P

Double bond geometry as shown.
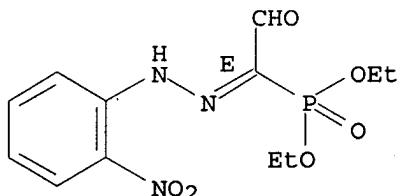
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonous acid, [diazo(trimethylsilyl)methyl]-, dimethyl ester (9CI)
MF   C6 H15 N2 O2 P Si

```
        N2
        ||
Me3Si— C— P— OMe
           |
           OMe
```
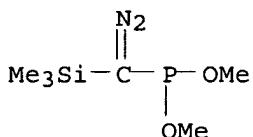
L2   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(4-methoxyphenyl)(phenylhydrazono)methyl]-, diethyl
      ester (9CI)
MF   C18 H23 N2 O4 P
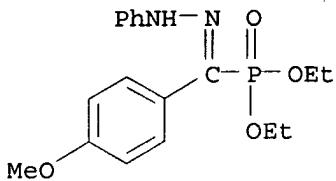
PhNH—N   O
       ‖   ‖
       C— P— OEt
      / |
     /   OEt
    [benzene ring]
MeO

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT


L2   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(1Z)-2,2,2-trifluoro-1-[(2,2,2-
      trifluoroethyl)imino]ethyl]-, bis(1-methylethyl) ester (9CI)
MF   C10 H16 F6 N O3 P

Double bond geometry as shown.
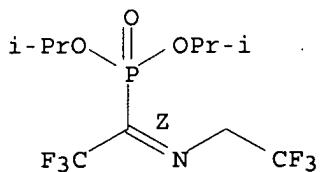
              O
              ‖
i-PrO\   /OPr-i
      \ P /
       \ | /
        \|/
         C
        Z ‖
F3C   / N   CF3
      /   \ /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [1-diazo-2,2-bis(dimethylamino)ethyl]-, diethyl ester
      (9CI)
MF   C10 H23 N4 O3 P

   Me2N   N2 OEt
     | ‖ |
Me2N— CH— C— P— OEt
              ‖
              O
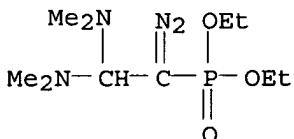
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
Uploading
'UPLOAD SSTN' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):C:\Documents and Settings\PZucker\My
Documents\Examination Auxillary files\10591964\10591964 H FIXED iminophosphonate.str
 YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):
'0 SZ' @-#&1~" J*' IS NOT VALID HERE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10591964\10591964 H FIXED iminophosphonate.str
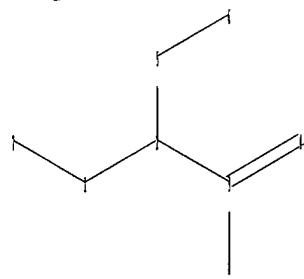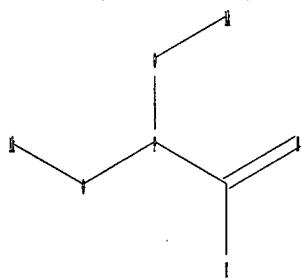
chain nodes :
1 2 3 4 5 6 7 8
chain bonds :
1-2 1-7 2-3 2-5 3-4 3-8 5-6
exact/norm bonds :
1-2 1-7 2-5 3-4 5-6
exact bonds :
2-3 3-8

Hydrogen count :
3:>= minimum 1
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L3   STRUCTURE UPLOADED

=> d 13
L3 HAS NO ANSWERS
L3   STR
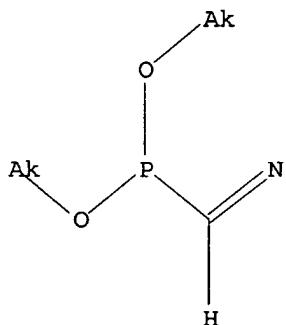
Structure attributes must be viewed using STN Express query preparation.

=> search l3 sss sam
SAMPLE SEARCH INITIATED 08:04:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2737 TO ITERATE

 73.1% PROCESSED   2000 ITERATIONS   1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 51602 TO   57878
PROJECTED ANSWERS: 1 TO   97

L4   1 SEA SSS SAM L3

=> d scan

L4   1 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[(diphosphonomethylene)amino]methyl]-, hexabutyl ester
     (7CI)
MF   C26 H56 N O9 P3
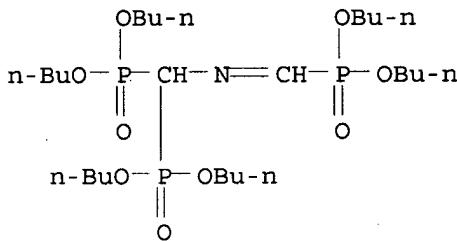
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search l3 sss full
FULL SEARCH INITIATED 08:05:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   55632 TO ITERATE

100.0% PROCESSED   55632 ITERATIONS   46 ANSWERS
SEARCH TIME: 00.00.01

L5   46 SEA SSS FUL L3

=> d scan

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[[2,4,5-tris(1,1-dimethylethyl)-1H-pyrrol-3-
   yl]imino]methyl]-, diethyl ester (9CI)
MF   C21 H39 N2 O3 P
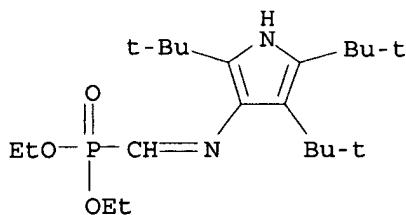
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(E)-[(2-ethyl-1-butenyl)imino]methyl]-, diethyl ester
      (9CI)
MF   C11 H22 N O3 P

Double bond geometry as shown.
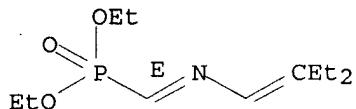
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, (diazomethyl)-, bis(phenylmethyl) ester (9CI)
MF   C15 H15 N2 O3 P
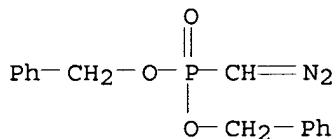
L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(phenylimino)methyl]-, diethyl ester (9CI)
MF   C11 H16 N O3 P
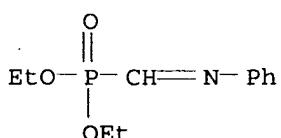
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, P-[(Z)-(methyloxidoimino)methyl]-, diethyl ester
MF   C6 H14 N O4 P

Double bond geometry as shown.
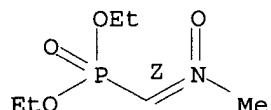
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, P-(diazomethyl)-, bis(1-methylethyl) ester
MF   C7 H15 N2 O3 P
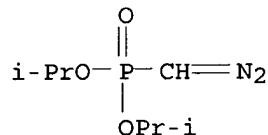
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(hydroxyimino)methyl]-, bis(phenylmethyl) ester (9CI)
MF   C15 H16 N O4 P
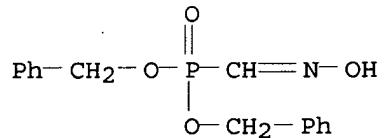
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT


L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, P-[[oxido[(1S)-1-phenylethyl]imino]methyl]-, diethyl
      ester
MF   C13 H20 N O4 P

Absolute stereochemistry.
Double bond geometry unknown.
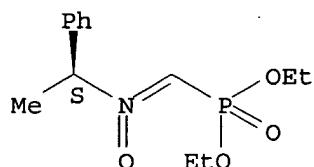
L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[(diphosphonomethylene)amino]methyl]-, hexabutyl ester
   (7CI)
MF   C26 H56 N O9 P3


```
         OBu-n              OBu-n
          |                  |
n-BuO— P— CH— N══ CH— P— OBu-n
         ||    |           ||
          O    |            O
               |
      n-BuO— P— OBu-n
              ||
               O
```
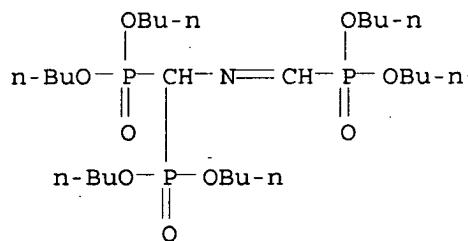
L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[(1-phenylpentyl)imino]methyl]-, diethyl ester (9CI)
MF   C16 H26 N O3 P
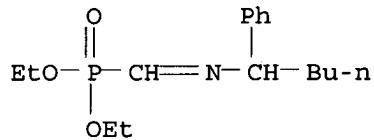

```
        O           Ph
        ||           |
EtO— P— CH══ N— CH— Bu-n
        |
        OEt
```

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[(triphenylphosphoranylidene)hydrazono]methyl]-,
     dimethyl ester (9CI)
MF   C21 H22 N2 O3 P2
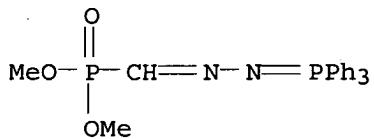

```
        O
        ||
MeO— P— CH══ N— N══ PPh3
        |
        OMe
```

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[(phenylmethoxy)imino]methyl]-, diethyl ester, (E)-
     (9CI)
MF   C12 H18 N O4 P

Double bond geometry as shown.
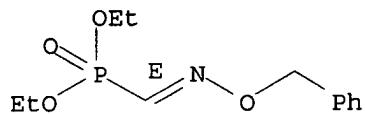
$$\text{EtO}-\underset{\underset{\text{EtO}}{}}{\overset{\overset{\displaystyle O}{\|}}{P}}-CH\overset{E}{=}N-O-CH_2-Ph \quad (OEt)$$

OEt appears above P; structure: (EtO)(EtO)P(=O)–CH=N–O–CH₂–Ph

**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Methanaminium, N-[(diethoxyphosphinyl)methylene]-N-methyl- (9CI)
MF   C7 H17 N O3 P
CI   COM

$$\text{EtO}-\underset{\underset{\text{OEt}}{|}}{\overset{\overset{\displaystyle O}{\|}}{P}}-CH=N^+Me_2$$
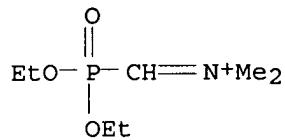
L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, (diazomethyl)-, di-2-propenyl ester (9CI)
MF   C7 H11 N2 O3 P

$$H_2C=CH-CH_2-O-\underset{\underset{O-CH_2-CH=CH_2}{|}}{\overset{\overset{\displaystyle O}{\|}}{P}}-CH=N_2$$
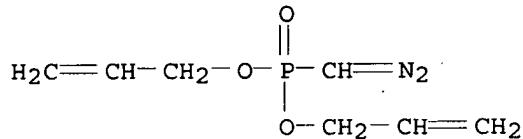
L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [[(2-methyl-1-propenyl)imino]methyl]-, diethyl ester
      (9CI)
MF   C9 H18 N O3 P
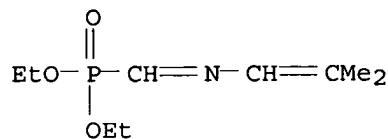
$$\text{EtO}-\underset{\underset{\text{OEt}}{|}}{\overset{\overset{\displaystyle O}{\|}}{P}}-CH=N-CH=CMe_2$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, P-[(2-phenylhydrazinylidene)methyl]-, dimethyl ester
MF   C9 H13 N2 O3 P
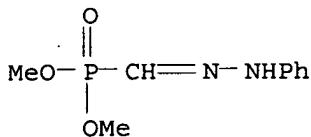
```
        O
        ||
MeO — P — CH == N — NHPh
        |
        OMe
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonous acid, [(hydroxyimino)methyl]-, diethyl ester (9CI)
MF   C5 H12 N O3 P
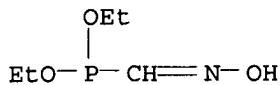

```
       OEt
       |
EtO — P — CH == N — OH
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT


L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(hydroxyimino)methyl]-, diethyl ester (9CI)
MF   C5 H12 N O4 P
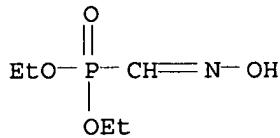

```
        O
        ||
EtO — P — CH == N — OH
        |
        OEt
```

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Methanaminium, N-[(diethoxyphosphinyl)methylene]-N-methyl-, chloride (9CI)
MF   C7 H17 N O3 P . Cl


```
        O
        ||
EtO — P — CH == N+Me2
        |
        OEt
```
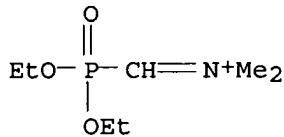

  ● Cl⁻

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT


L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(benzoylimino)methyl]-, diethyl ester (9CI)
MF   C12 H16 N O4 P
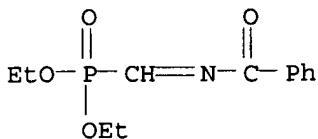
EtO—P(=O)(OEt)—CH=N—C(=O)—Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5   46 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Phosphonic acid, [(E)-[(cyclohexylidenemethyl)imino]methyl]-, diethyl
      ester (9CI)
.MF   C12 H22 N O3 P

Double bond geometry as shown.
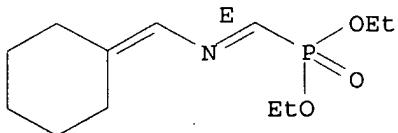
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus
'FILE CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to
see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	182.96	183.17

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FILE COVERS 1907 - 22 Jan 2008   VOL 148 ISS 4
FILE LAST UPDATED: 21 Jan 2008   (20080121/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> l5
L6           226 L5

=> copper or Cu
        970463 COPPER
           473 COPPERS
        970534 COPPER
                  (COPPER OR COPPERS)
        840427 CU.
          5108 CUS
        842734 CU
                  (CU OR CUS)
L7     1261610 COPPER OR CU

=> l6 and l7
L8            20 L6 AND L7

=> triflate
         16623 TRIFLATE
          2580 TRIFLATES.
L9        17342 TRIFLATE
                  (TRIFLATE OR TRIFLATES)

=> l8 and l9
L10            6 L8 AND L9

=> d l10 1-6 ti
```

L10   ANSWER 1 OF 6   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   Indium triflate catalyzed reaction of diisopropyl
      diazomethylphosphonate with imines as a new approach to cis- and
      trans-aziridine-2-phosphonates

L10   ANSWER 2 OF 6   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   Silver(I) Triflate-Catalyzed Direct Synthesis of N-PMP Protected
      α-Aminopropargylphosphonates from Terminal Alkynes

L10   ANSWER 3 OF 6   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   High turnover frequency observed in catalytic enantioselective additions
      of enecarbamates and enamides to iminophosphonates

L10   ANSWER 4 OF 6   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   Catalytic asymmetric synthesis of cyclopropylphosphonates - catalysts'
      scope and reactivity

L10   ANSWER 5 OF 6   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   Catalytic interaction of diisopropyl diazomethylphosphonate with
      N-benzylidenephenylamine

L10   ANSWER 6 OF 6   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   Enantiopure N-Acyldihydropyridones as Synthetic Intermediates: Asymmetric
      Syntheses of Indolizidine Alkaloids (-)-205A, (-)-207A, and (-)-235B

```
=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                    ENTRY        SESSION

FULL ESTIMATED COST                                 13.32        196.49
```

FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 JAN 2008   HIGHEST RN 1000370-19-3
DICTIONARY FILE UPDATES: 21 JAN 2008   HIGHEST RN 1000370-19-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.   For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html·

=> d his

        (FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

        FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008
L1   STRUCTURE UPLOADED
L2   50 SEARCH L1 SSS SAM
L3   STRUCTURE UPLOADED
L4   1 SEARCH L3 SSS SAM
L5   46 SEARCH L3 SSS FULL

        FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008
L6   226 L5
L7   1261610 COPPER OR CU
L8   20 L6 AND L7
L9   17342 TRIFLATE
L10   6 L8 AND L9

        FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008

=> save temp 15 rawpos/a
ANSWER SET L5 HAS BEEN SAVED AS 'RAWPOS/A'

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary
files\10591964\10591964 copper reagent.str
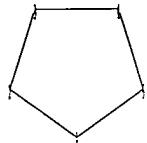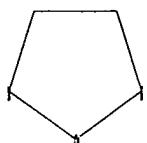
ring nodes :
1 2 3 4 5
ring bonds :
1-2 1-5 2-3 3-4   4-5
exact/norm bonds :
1-2 1-5 2-3 3-4   4-5

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom

L11   STRUCTURE UPLOADED

=> d l11
L11 HAS NO ANSWERS
L11   STR
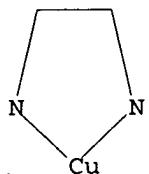
Structure attributes must be viewed using STN Express query preparation.

=> search l11 sss sam
SAMPLE SEARCH INITIATED 08:13:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   3732 TO ITERATE

 53.6% PROCESSED   2000 ITERATIONS   50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 70977 TO   78303
PROJECTED ANSWERS: 44838 TO   50700

L12   50 SEA SSS SAM L11

=> d scan

L12 50 ANSWERS   REGISTRY COPYRIGHT 2008 ACS on STN
IN   INDEX NAME NOT YET ASSIGNED
MF   C16 H10 Cu N4 O S2
CI   CCS
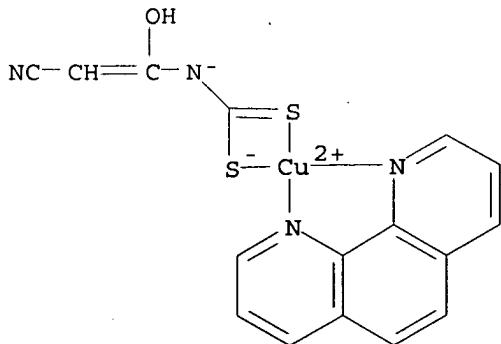
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L12 50 ANSWERS   REGISTRY COPYRIGHT 2008 ACS on STN
IN   INDEX NAME NOT YET ASSIGNED
MF   C32 H29 Cu2 F6 N6 O7 S4
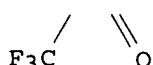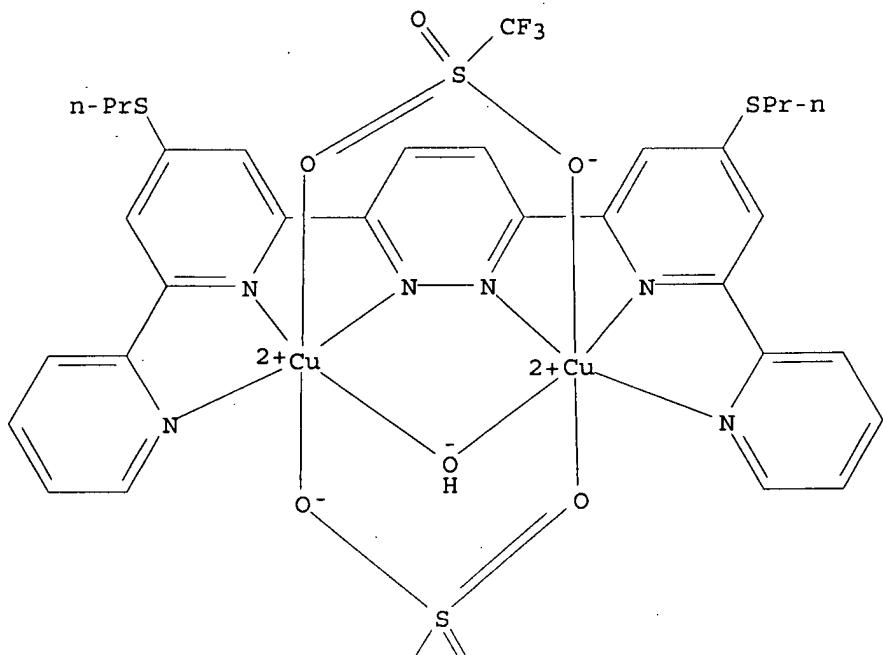
L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   INDEX NAME NOT YET ASSIGNED
MF   C12 H8 Cu N2 O4 S . 2 H2 O
CI   CCS

●2 H2O

L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
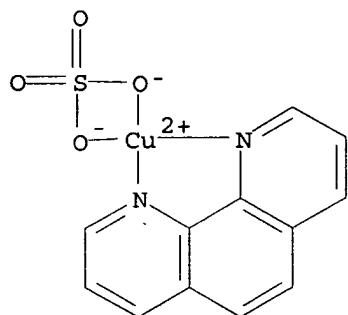
IN   INDEX NAME NOT YET ASSIGNED
MF   C27 H58 Cu3 N6 O3
CI   CCS, COM
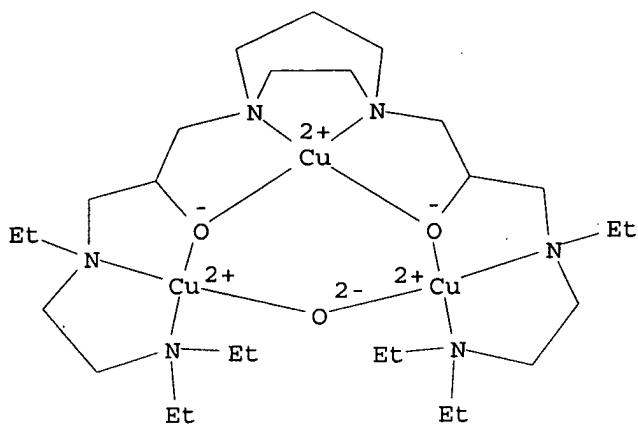
L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   INDEX NAME NOT YET ASSIGNED
MF   C36 H54 Cl Cu2 N6 O6 . Cl O4

      CM   1
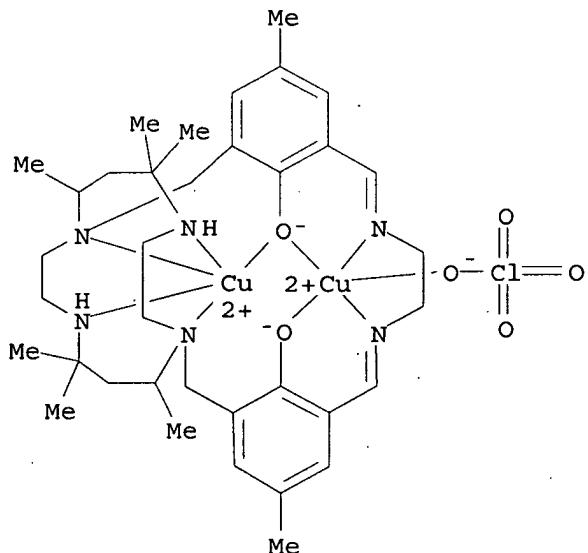
      CM   2
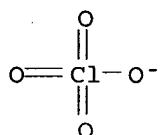
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

IN   Tungstate(2-), [bis[μ-(acetato-κO:κO')]aquabis(1,10-
      phenanthroline-κN1,κN10)dicuprate]germanatepentacosa-μ-
      oxotetra-μ4-oxoundecaoxododeca-, stereoisomer
MF   C28 H24 Cu2 Ge N4 O45 W12
CI   CCS, COM

O

W⁴⁺ ————————————————— O²⁻

W⁴⁺
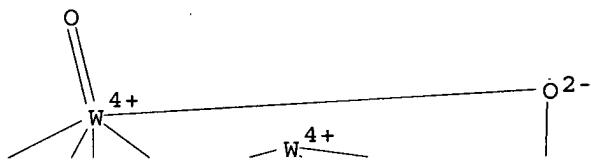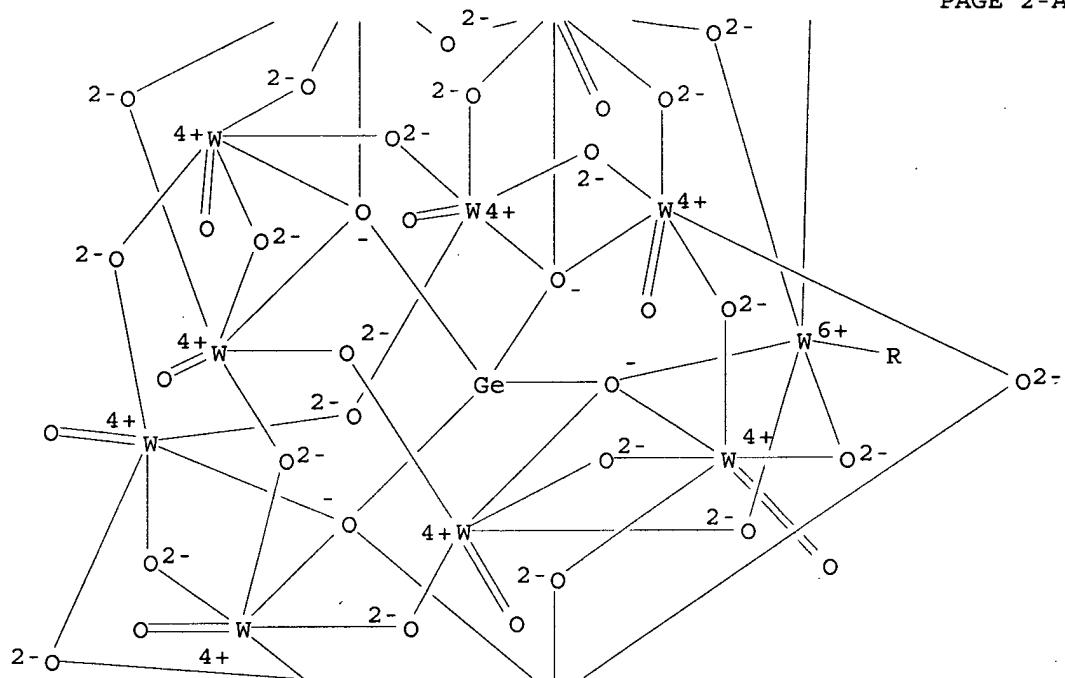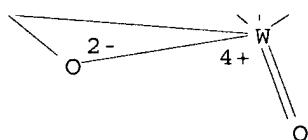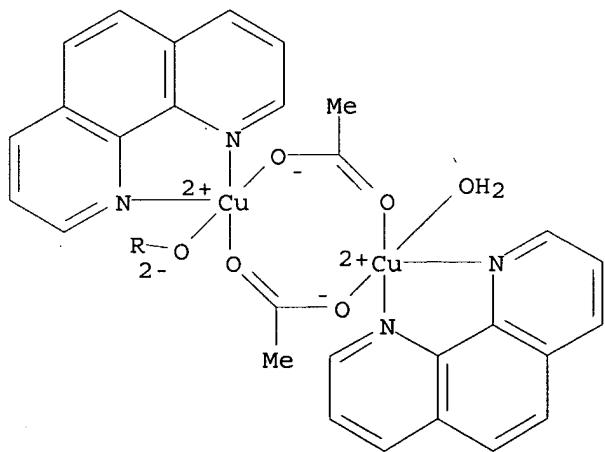
L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Copper(2+), aquabis(2,2'-bipyridine-κN1,κN1')-, (SP-5-22)-,
      hydrogen stereoisomer of bis[μ5-[25,26-di(hydroxy-κO)-27,28-
      di(hydroxy-κO:κO)-2,8,14,20-tetrathiapentacyclo[19.3.1.13,7.19

,13.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-
dodecaene-5,11,17,23-tetrasulfonato(8-)-κO5:κS2:κS8:.kap
pa.S14:κS20]][hexakis(2,2'-bipyridine-κN1,κN1')tetracupr
ate]triargentate(5-), hydrate (1:3:1:31)

MF   C108 H64 Ag3 Cu4 N12 O32 S16 . C20 H18 Cu N4 O . 31 H2 O . 3 H

    CM   1

       CM   2
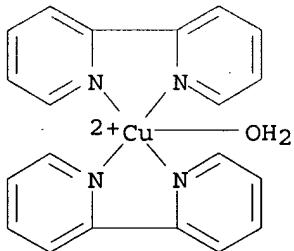
       CM   3

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Copper(2+), diaquabis(1,2-ethanediamine-κN1,κN2)-, (OC-6-12)-,
    4-nitrobenzoate (1:2)
MF   C7 H4 N O4 . 1/2 C4 H20 Cu N4 O2

    CM   1
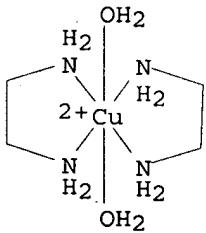
    CM   2
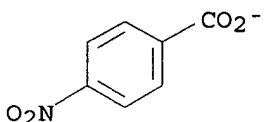
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Copper(2+), [μ-[aspartato(2-)-κN,κO1:κO4,κO'4]]

tris(1,10-phenanthroline-κN1,κN10)di-
MF   C40 H29 Cu2 N7 O4
CI   CCS, COM
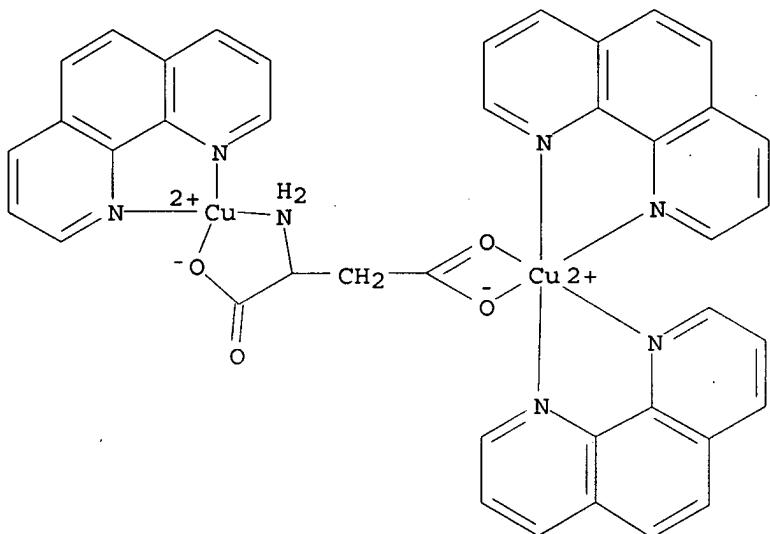
L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   INDEX NAME NOT YET ASSIGNED
MF   C54 H52 Cu N8 O10
CI   CCS, COM
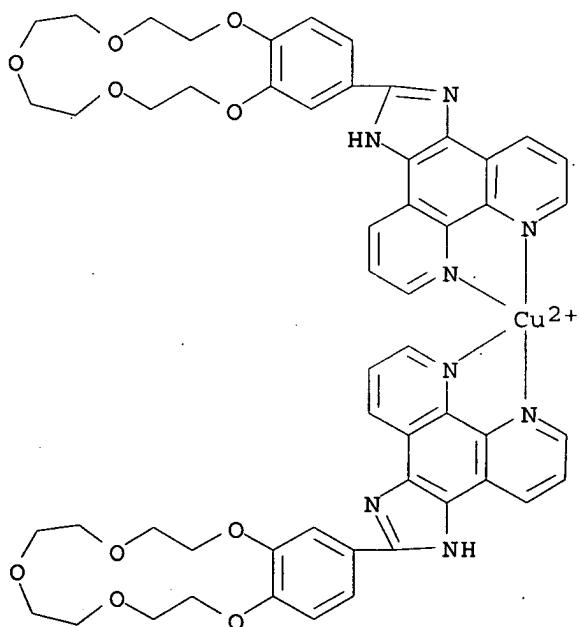
L12   50 ANSWERS   REGISTRY   COPYRIGHT 2008 ACS on STN
IN   Copper(9+), bis[1,1''-[([2,2'-bipyridine]-5,5'-diyl-
      κN1,κN1')bis(methylene)]bis[1'-(10-mercaptodecyl)-4,4'-

bipyridinium]]-, chloride (1:9), (T-4)-
MF   C104 H136 Cu N12 S4 . 9 Cl
CI   CCS

HS—(CH2)10—N+...

●9 Cl⁻

(CH2)10—SH

(CH2)10—SH
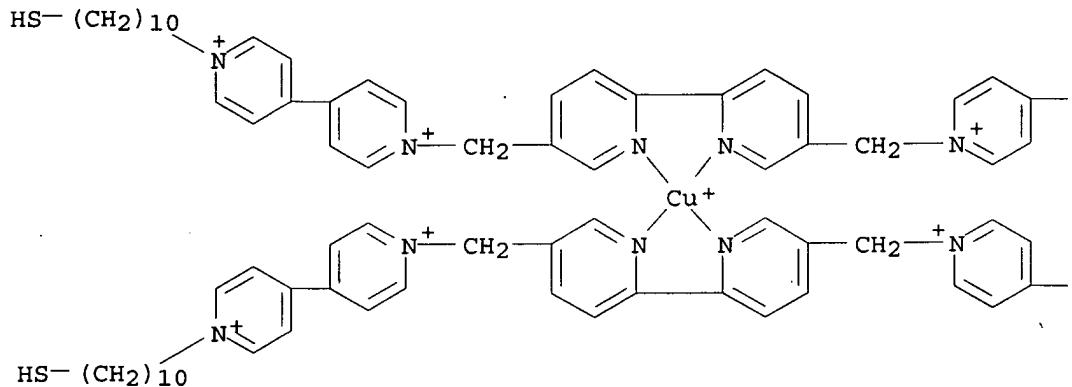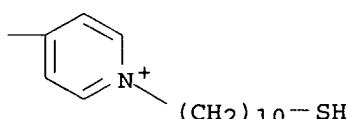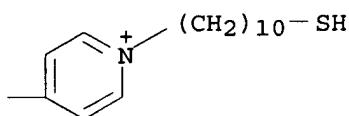
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

    (FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

    FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008
L1   STRUCTURE UPLOADED
L2   50 SEARCH L1 SSS SAM
L3   STRUCTURE UPLOADED
L4   1 SEARCH L3 SSS SAM
L5   46 SEARCH L3 SSS FULL

    FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008
L6   226 L5
L7   1261610 COPPER OR CU
L8   20 L6 AND L7

```
L9          17342 TRIFLATE
L10             6 L8 AND L9

      FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008
                 SAVE TEMP L5 RAWPOS/A
L11               STRUCTURE UPLOADED
L12            50 SEARCH L11 SSS SAM

=> search l11 sss full
FULL SEARCH INITIATED 08:14:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     74478 TO ITERATE

100.0% PROCESSED.   74478 ITERATIONS                    47480 ANSWERS
SEARCH TIME: 00.00.01

L13          47480 SEA SSS FUL L11

=> save temp l13 rawcats/a
ANSWER SET L13 HAS BEEN SAVED AS 'RAWCATS/A'

=> file caplus
COST IN U.S. DOLLARS                     SINCE FILE      TOTAL
                                           ENTRY        SESSION
 FULL ESTIMATED COST                       181.58       378.07

FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008
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FILE COVERS 1907 - 22 Jan 2008  VOL 148 ISS 4
FILE LAST UPDATED: 21 Jan 2008  (20080121/ED)

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=> l13
L14         16613 L13

=> d his

      (FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

      FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008
L1                STRUCTURE UPLOADED
L2             50 SEARCH L1 SSS SAM
L3                STRUCTURE UPLOADED
L4              1 SEARCH L3 SSS SAM
L5             46 SEARCH L3 SSS FULL

      FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008
L6            226 L5
```

```
L7        1261610 COPPER OR CU
L8             20 L6 AND L7
L9          17342 TRIFLATE
L10             6 L8 AND L9


     FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008
               SAVE TEMP L5 RAWPOS/A
L11              STRUCTURE UPLOADED
L12            50 SEARCH L11 SSS SAM
L13         47480 SEARCH L11 SSS FULL
               SAVE TEMP L13 RAWCATS/A


     FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008
L14          16613 L13

=> 16 and 114
L15             0 L6 AND L14

=> logoff hold
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                              1.44        379.51


 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:18:45 ON 22 JAN 2008

Connecting via Winsock to STN




Welcome to STN International!   Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:49:46 ON 22 JAN 2008
FILE 'CAPLUS' ENTERED AT 08:49:46 ON 22 JAN 2008
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COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                              1.44        379.51

=> d his

     (FILE 'HOME' ENTERED AT 07:37:35 ON 22 JAN 2008)

     FILE 'REGISTRY' ENTERED AT 07:38:23 ON 22 JAN 2008
L1               STRUCTURE UPLOADED
L2             50 SEARCH L1 SSS SAM
L3               STRUCTURE UPLOADED
L4              1 SEARCH L3 SSS SAM
L5             46 SEARCH L3 SSS FULL


     FILE 'CAPLUS' ENTERED AT 08:06:10 ON 22 JAN 2008
L6            226 L5
L7        1261610 COPPER OR CU
L8             20 L6 AND L7
L9          17342 TRIFLATE
L10             6 L8 AND L9


     FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008
               SAVE TEMP L5 RAWPOS/A
```

```
L11             STRUCTURE UPLOADED
L12         50 SEARCH L11 SSS SAM
L13      47480 SEARCH L11 SSS FULL
            SAVE TEMP L13 RAWCATS/A


    FILE 'CAPLUS' ENTERED AT 08:17:07 ON 22 JAN 2008
L14       16613 L13
L15           0 L6 AND L14


=> enol?
L16       50041 ENOL?


=> 18 and 116
L17           2 L8 AND L16


=> d 117 1- 3
        2 ANSWERS ARE AVAILABLE.  SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):end


=> d 117 1- 2 ti
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y
```

L17   ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI   High turnover frequency observed in catalytic enantioselective additions
      of enecarbamates and enamides to iminophosphonates

L17   ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI   Catalytic asymmetric synthesis of α-amino phosphonates using
      enantioselective carbon-carbon bond-forming reactions

L17   ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI   Catalytic asymmetric synthesis of α-amino phosphonates using
      enantioselective carbon-carbon bond-forming reactions


```
=> d 117 2 ti fbib abs
```

L17   ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
TI   Catalytic asymmetric synthesis of α-amino phosphonates using
      enantioselective carbon-carbon bond-forming reactions
AN   2004:369459 CAPLUS
DN   141:89159
TI   Catalytic asymmetric synthesis of α-amino phosphonates using
      enantioselective carbon-carbon bond-forming reactions
AU   Kobayashi, Shu; Kiyohara, Hiroshi; Nakamura, Yoshitaka; Matsubara, Ryosuke
CS   Graduate School of Pharmaceutical Sciences, The University of Tokyo,
      Bunkyo, Tokyo, Hongo, 113-0033, Japan
SO   Journal of the American Chemical Society (2004), 126(21), 6558-6559
      CODEN: JACSAT; ISSN: 0002-7863
PB   American Chemical Society
DT   Journal
LA   English
OS   CASREACT 141:89159
AB   A highly enantioselective reactions of silicon enolates with
      N-acyl-α-iminophosphonates leading to optically active α-amino
      phosphonates was developed. Copper (II)-diamine complex was
      effective in this reaction, and high levels of yield and selectivity were
      achieved. It is noteworthy that this reaction opens a way to various
      biol. important, optically active α-amino phosphonate derivs. Thus,
      Cu(OTf)2/(R,R)-[(α-nap)CH2NHCHPhCHPhNHCH2(α-
      nap)]/hexafluoroisopropyl alc. (HFIP)/mol. sieve 3A mediated
      enantioselective carbon-carbon bond forming reaction of
      (EtO)2P(O)CH:N(Troc) (nap = naphthyl, Troc = 2,2,2-
      trichloroethoxycarbonyl) with PhC(:CH2)(OSiMe3) gave 86%

(S)-(EtO)2P(O)CH{NH-Troc}CH2COPh with 91% enantioselectivity.
RE.CNT 24   THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 117 1 ti fbib abs

L17   ANSWER 1 OF 2   CAPLUS   COPYRIGHT 2008 ACS on STN
TI   High turnover frequency observed in catalytic enantioselective additions
      of enecarbamates and enamides to iminophosphonates
AN   2006:1079247   CAPLUS
DN   146:8035
TI   High turnover frequency observed in catalytic enantioselective additions
      of enecarbamates and enamides to iminophosphonates
AU   Kiyohara, Hiroshi; Matsubara, Ryosuke; Kobayashi, Shu
CS   Graduate School of Pharmaceutical Sciences, University of Tokyo, Tokyo,
      Japan
SO   Organic Letters (2006), 8(23), 5333-5335
      CODEN: ORLEF7; ISSN: 1523-7060
PB   American Chemical Society
DT   Journal
LA   English
OS   CASREACT 146:8035
AB   Chiral α-aminophosphonates were prepared by copper
      /diamine-catalyzed asym. addition fo enamides to iminomethylphosphonates.
      Reaction of (EtO)2POCH:NX (1, X = 2,2,2-trichloroethoxycarbonyl, Troc)
      with CH2:C(Ar)NHCbz catalyzed by Cu(OTf)2/(R,R)-
      Ar1CH2NHCHPhCHPhNHCH2Ar1 (Ar1 = 1-naphthyl, Ph) afforded chiral
      α-aminophosphonates (EtO)2P(O)CH(NHX)CH2COAr (4a-f, Ar = Ph,
      4-MeC6H4, 4-ClC6H4, 2-naphthalenyl, 3-MeC6H4). In the addition reactions,
      extremely high turnover frequency of the catalyst was observed in comparison
      with that of silicon enolate addition reactions. This is
      presumably due to fast transfer of the proton that locates on the
      nucleophiles.
RE.CNT 38   THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L2          50 SEARCH L1 SSS SAM
L3                STRUCTURE UPLOADED
L4           1 SEARCH L3 SSS SAM
L5          46 SEARCH L3 SSS FULL


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L7      1261610 COPPER OR CU
L8          20 L6 AND L7
L9        17342 TRIFLATE
L10          6 L8 AND L9


        FILE 'REGISTRY' ENTERED AT 08:12:09 ON 22 JAN 2008
                  SAVE TEMP L5 RAWPOS/A
L11               STRUCTURE UPLOADED
L12         50 SEARCH L11 SSS SAM
L13      47480 SEARCH L11 SSS FULL
                  SAVE TEMP L13 RAWCATS/A


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L14      16613 L13
L15          0 L6 AND L14
L16      50041 ENOL?
L17          2 L8 AND L16

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.78	392.85

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CA SUBSCRIBER PRICE	-1.60	-1.60

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.78	392.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

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